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Appl. No. 10/589,418  
Amdt. Dated February 20, 2008  
Reply to Office Action of September 20, 2007

**Amendments to the Claims:**

This listing will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently amended): A process for producing 2,2,3,3-tetrafluorooxethane, which comprises allowing tetrafluoroethylene to react with at least one of paraformaldehyde and trioxane a formaldehyde-generating compound in anhydrous hydrogen fluoride, said reaction being carried out in the presence of polyfluoroalkylic acid or polyfluoroalkyl ester thereof, represented by the following general formula:



wherein Rf is a polyfluoroalkyl group having 1-5 carbon atoms, and Rf' is a hydrogen atom or a polyfluoroalkyl group having 1-5 carbon atoms.

Claim 2 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, wherein the carboxylic acid, represented by the general formula  $\text{RfCOORf'}$ , is  $\text{CF}_3\text{COOH}$ .

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Claim 3 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula  $RfCOORf'$ , is  $CF_3COOCH_2CF_2CF_3$ .

Claim 4 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula  $RfCOORf'$ , is  $CF_3COOCH_2CF_3$ .